

DAFTAR PUSTAKA

1. Ackland, M. L. and Michalczyk, A. A. (2016) 'Zinc and infant nutrition', *Archives of Biochemistry and Biophysics*. Elsevier Ltd, 611, pp. 51-57. doi: 10.1016/j.abb.2016.06.011.
2. Addo, O. Y. *et al.* (2020) 'An Integrated Infant and Young Child Feeding and Small-Quantity Lipid-based Nutrient Supplementation Program Is Associated with Improved Gross Motor and Communication Scores of Children 6-18 Months in the Democratic Republic of Congo', *Journal of Pediatrics*. Elsevier Inc, 222, pp. 154-163. doi: 10.1016/j.jpeds.2020.01.023.
3. Adu-Gyamfi, E. A., Ding, Y. Bin and Wang, Y. X. (2020) 'Regulation of placentation by the transforming growth factor beta superfamily', *Biology of Reproduction*, 102(1), pp. 18-26. doi: 10.1093/biolre/ioz186.
4. Ardiani, Y., Defrin, D. and Yetti, H. (2019) 'Kajian Pustaka: Kadar Brain Derived Neurotrophic Factor Mempengaruhi Berat Badan Lahir pada Bayi', *Jurnal Ilmiah Universitas Batanghari Jambi*, 19(1), p. 152. doi: 10.33087/jiubj.v19i1.576.
5. Ashari, M. A. (2012) 'Hubungan Kadar dan Polimorfisme Transforming Growth Factor - β 1 dengan Kejadian Osteoporosis pada Wanita', pp. 139-167. Available at: https://repository.ugm.ac.id/digitasi/download.php?file=2985_RD12100002-mochammad-a-ashari.pdf.
6. Asparuhova, M. B. *et al.* (2018a) 'Bone-conditioned medium contributes to initiation and progression of osteogenesis by exhibiting synergistic TGF- β 1/BMP-2 activity', *International Journal of Oral Science*. Springer US, 10(2), pp. 1-9. doi: 10.1038/s41368-018-0021-2.
7. Asparuhova, M. B. *et al.* (2018b) 'Bone-conditioned medium contributes to initiation and progression of osteogenesis by exhibiting synergistic TGF- β 1/BMP-2 activity', *International Journal of Oral Science*, 10(2), pp. 1-9. doi: 10.1038/s41368-018-0021-2.
8. Baltaci, A. K. and Yuce, K. (2018) 'Zinc Transporter Proteins', *Neurochemical Research*. Springer US, 43(3), pp. 517-530. doi: 10.1007/s11064-017-2454-y.
9. Bisai, S. (2011) 'Maternal Height as an Independent Risk Factor for Neonatal Size among Adolescent Bengalees in Kolkata, India', *Ethiopian Journal of Health Sciences*, 20(3), pp. 153-158. doi: 10.4314/ejhs.v20i3.69444.
10. Black, R. E. *et al.* (2013) 'Maternal and child undernutrition and overweight in low-income and middle-income countries', *The Lancet*, 382(9890), pp. 427-451. doi: 10.1016/S0140-6736(13)60937-X.
11. Black, R. E. and Heidkamp, R. (2018) 'Causes of stunting and preventive dietary interventions in pregnancy and early childhood', *Nestle Nutrition Institute Workshop Series*, 89, pp. 105-113. doi: 10.1159/000486496.
12. Brandão-Neto, J. *et al.* (1995) 'The essential role of zinc in growth', *Nutrition Research*, 15(3), pp. 335-358. doi: 10.1016/0271-5317(95)00003-8.
13. Burger, M. *et al.* (2020) 'Maternal Perinatal Mental Health and Infant and Toddler Neurodevelopment - Evidence from Low and Middle-Income

- Countries. A Systematic Review', *Journal of Affective Disorders*. Elsevier B.V. doi: 10.1016/j.jad.2020.03.023.
14. Cahyani, F. P., Furqon, M. T. and Rahayudi, B. (2018) 'Identifikasi Penyimpangan Tumbuh Kembang Anak Dengan Algoritme Backpropagation', *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer (JPTIIK) Universitas Brawijaya*, 2(5), pp. 1778-1786.
 15. Camargos, A. C. R. *et al.* (2017) 'Association between obesity-related biomarkers and cognitive and motor development in infants', *Behavioural Brain Research*, 325, pp. 12-16. doi: 10.1016/j.bbr.2017.02.030.
 16. Castillo-Durán, C. *et al.* (2001) 'Effect of zinc supplementation on development and growth of Chilean infants', *Journal of Pediatrics*, 138(2), pp. 229-235. doi: 10.1067/mpd.2001.110530.
 17. Chaffee, B. W. and King, J. C. (2012) 'Effect of Zinc Supplementation on Pregnancy and Infant Outcomes: A Systematic Review', 26, pp. 118-137. doi: 10.1111/j.1365-3016.2012.01289.x.
 18. Chamidah Atien Nur (2009) 'DETEKSI DINI GANGGUAN PERTUMBUHAN DAN PERKEMBANGAN ANAK Atien Nur Chamidah', *Jurnal Pendidikan Khusus*, vol.1 no.3, pp. 1-8.
 19. Chen, C. C. *et al.* (2012) 'Autocrine prolactin induced by the Pten-Akt pathway is required for lactation initiation and provides a direct link between the Akt and Stat5 pathways', *Genes and Development*. doi: 10.1101/gad.197343.112.
 20. Choi, S. *et al.* (2020) 'Zinc in the Brain: Friend or Foe?'
 21. Chowanadisai, W., Kelleher, S. L. and Lönnnerdal, B. (2004) 'Maternal Zinc Deficiency Raises Plasma Prolactin Levels in Lactating Rats', *The Journal of Nutrition*. doi: 10.1093/jn/134.6.1314.
 22. Colombo, J. *et al.* (2014) 'Zinc supplementation sustained normative neurodevelopment in a randomized, Controlled trial of peruvian infants aged 6-18 months', *Journal of Nutrition*, 144(8), pp. 1298-1305. doi: 10.3945/jn.113.189365.
 23. Connor, J. P. O. *et al.* (2020) 'Seng sebagai Agen Terapeutik dalam Regenerasi Tulang', pp. 1-22.
 24. D.A liona (2019) 'Effect of Zinc Supplementation on Pregnant Women With Chronic Energy Malnutrition in Third Trimester of Pregnancy on Levels of Serum Zinc and Retinol After Childbirth in the District Bojonegoro', (031), pp. 11-32.
 25. Daopin, S. *et al.* (1992) 'Crystal structure of transforming growth factor- β 2: An unusual fold for the superfamily', *Science*, 257(5068), pp. 369-373. doi: 10.1126/science.1631557.
 26. Dempsey, C. *et al.* (2012) 'Marginal Maternal Zinc Deficiency in Lactating Mice Reduces Secretory Capacity and Alters Milk Composition', *The Journal of Nutrition*. doi: 10.3945/jn.111.150623.
 27. Diana, F. . (2010) 'Pemantauan Perkembangan Anak Balita', *Jurnal Kesehatan Masyarakat Andalas*, 4(2), pp. 116-129. doi: 10.24893/JKMA.4.2.116-129.2010.
 28. Dingin, S. D. G. *et al.* (2012) 'Mengulas artikel Seng di sistem saraf pusat: Dari molekul ke perilaku', (850), pp. 186-193.
 29. Donangelo, C. M. and King, J. C. (2012) 'Maternal zinc intakes and

- homeostatic adjustments during pregnancy and lactation', *Nutrients*. doi: 10.3390/nu4070782.
30. Duggal, P. and Petri, W. A. (2018) 'Does Malnutrition Have a Genetic Component?', *Annu. Rev. Genom. Hum. Genet*, 19, pp. 19-20. doi: 10.1146/annurev-genom-083117.
 31. Dumrongwongsiri, O. *et al.* (2015) 'Maternal zinc status is associated with breast milk zinc concentration and zinc status in breastfed infants aged 4-6 months', *Asia Pacific Journal of Clinical Nutrition*, 24(2), pp. 273-280. doi: 10.6133/apjcn.2015.24.2.06.
 32. Efevbera, Y. *et al.* (2017) 'Girl child marriage as a risk factor for early childhood development and stunting', *Social Science and Medicine*. Elsevier Ltd, 185, pp. 91-101. doi: 10.1016/j.socscimed.2017.05.027.
 33. Favier, A. E. (1992) 'The role of zinc in reproduction - Hormonal mechanisms', *Biological Trace Element Research*, 32(1-3), pp. 363-382. doi: 10.1007/BF02784623.
 34. Flora, R. *et al.* (2020) 'Correlation between brain-derived neurotrophic factor levels and serum iron levels in stunted children living in malaria-endemic areas', *Open Access Macedonian Journal of Medical Sciences*, 8(E), pp. 318-321. doi: 10.3889/oamjms.2020.4090.
 35. Frazzini, V., Granzotto, A., Bom, M., *et al.* (2018) 'BUKA Gangguan farmakologis seng otak merusak BDNF- pensinyalan terkait dan kinerja kognitif tikus muda', pp. 1-12. doi: 10.1038/s41598-018-28083-9.
 36. Frazzini, V., Granzotto, A., Bomba, M., *et al.* (2018) 'The pharmacological perturbation of brain zinc impairs BDNF-related signaling and the cognitive performances of young mice', *Scientific Reports*, 8(1), pp. 1-12. doi: 10.1038/s41598-018-28083-9.
 37. Frost, B. L. *et al.* (2014) 'Maternal breast milk transforming growth factor-beta and feeding intolerance in preterm infants', *Pediatric research*, 76(4), pp. 386-393. doi: 10.1038/pr.2014.96.
 38. Functioning, M. and Black, M. M. (2003) 'Neurocognitive Function and Trace Elements The Evidence Linking Zinc Deficiency with Children ' s Cognitive', *Human Biology*, (10), pp. 1473-1476.
 39. Ghassabian, A. *et al.* (2017) 'Determinants of neonatal brain-derived neurotrophic factor and association with child development', *Development and Psychopathology*, 29(4), pp. 1499-1511. doi: 10.1017/S0954579417000414.
 40. Gibson, R. S., King, J. C. and Lowe, N. (2016) 'A Review of Dietary Zinc Recommendations', *Food and Nutrition Bulletin*, 37(4), pp. 443-460. doi: 10.1177/0379572116652252.
 41. Giles, L. C. *et al.* (2015) 'Growth trajectories in early childhood, their relationship with antenatal and postnatal factors, and development of obesity by age 9 years: Results from an Australian birth cohort study', *International Journal of Obesity*, 39(7), pp. 1049-1056. doi: 10.1038/ijo.2015.42.
 42. Gower-Winter, S. D. and Levenson, C. W. (2012) 'Zinc in the central nervous system: From molecules to behavior', *BioFactors*, 38(3), pp. 186-193. doi: 10.1002/biof.1012.
 43. Graham, C. H. *et al.* (1992) 'Localization of transforming growth factor- β at

- the human fetal-maternal interface: Role in trophoblast growth and differentiation', *Biology of Reproduction*, 46(4), pp. 561-572. doi: 10.1095/biolreprod46.4.561.
44. Grande, I. *et al.* (2010) 'The role of BDNF as a mediator of neuroplasticity in bipolar disorder', *Psychiatry Investigation*, 7(4), pp. 243-250. doi: 10.4306/pi.2010.7.4.243.
 45. van Haastert, I. C. *et al.* (2006) 'Early gross motor development of preterm infants according to the Alberta Infant Motor Scale', *Journal of Pediatrics*, 149(5), pp. 617-622. doi: 10.1016/j.jpeds.2006.07.025.
 46. Hairunis, M. N., Salimo, H. and Dewi, Y. L. R. (2018) 'Hubungan Status Gizi dan Stimulasi Tumbuh Kembang dengan Perkembangan Balita', *Sari Pediatri*, 20(3), p. 146. doi: 10.14238/sp20.3.2018.146-51.
 47. Hamza, R. T., Hamed, A. I. and Sallam, M. T. (2012) 'Effect of zinc supplementation on growth Hormone Insulin growth factor axis in short Egyptian children with zinc deficiency', *Italian Journal of Pediatrics*, 38(1), pp. 1-7. doi: 10.1186/1824-7288-38-21.
 48. Han, F. *et al.* (2015) 'A pilot study of conically graded chitosan-gelatin hydrogel/PLGA scaffold with dual-delivery of TGF- β 1 and BMP-2 for regeneration of cartilage-bone interface', *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, 103(7), pp. 1344-1353. doi: 10.1002/jbm.b.33314.
 49. Hansen, S. L. *et al.* (2019) 'Suboptimal nutrition and low physical activity are observed together with reduced plasma brain-derived neurotrophic factor (BDNF) concentration in children with severe cerebral palsy (CP)', *Nutrients*, 11(3). doi: 10.3390/nu11030620.
 50. Hara, T. (2017) 'Peran fisiologis pengangkut seng : kepentingan molekuler dan genetik dalam homeostasis seng', pp. 283-301. doi: 10.1007/s12576-017-0521-4.
 51. Hara, T. *et al.* (2017) 'Physiological roles of zinc transporters: molecular and genetic importance in zinc homeostasis', *Journal of Physiological Sciences*. Springer Japan, 67(2), pp. 283-301. doi: 10.1007/s12576-017-0521-4.
 52. Hawkes, J. S., Bryan, D. L. and Gibson, R. A. (2002) 'Variations in transforming growth factor beta in human milk are not related to levels in plasma', *Cytokine*, 17(4), pp. 182-186. doi: 10.1006/cyto.2002.0987.
 53. Hayward, G. (2011) 'Teenage Pregnancy and Its Health Implications', pp. 100-102.
 54. Heidemann, S. M. *et al.* (2013) 'Baseline serum concentrations of zinc, selenium, and prolactin in critically ill children', *Pediatric Critical Care Medicine*, 14(4), pp. 202-206. doi: 10.1097/PCC.0b013e31827200f5.
 55. Herlina, S. (2018) 'Tumbuh Kembang Bayi Yang Mendapatkan Asi Eksklusif Diwilayah Kerja Puskesmas Simpang Baru Kota Pekanbaru', *Jurnal Kebidanan*, 7(2), p. 166. doi: 10.26714/jk.7.2.2018.166-176.
 56. Hesty Dwi Septiawahyuni, D. R. S. (2019) 'Kecukupan Asupan Zinc Berhubungan dengan Perkembangan Motorik pada Balita Stunting dan Non-Stunting Adequacy of Zinc Intake is Related to Motoric Development among Stunted and Non-Stunted Toddler', *Amerta Nutr*, pp. 1-6. doi: 10.20473/amnt.v3.i1.2019.1-6.

57. Hill, K. *et al.* (2015) 'Association of Maternal Stature With Offspring Mortality , Underweight , and Stunting', 303(15), pp. 1507-1516.
58. Hotz, C. and Brown, K. H. (2004a) 'Assessment of the Risk of Zinc Deficiency in Populations and Options for Its Control', *Food and Nutrition Bulletin*, 25(n. 1 (supplement 2)), pp. S94-S200.
59. Hotz, C. and Brown, K. H. (2004b) 'Contents International Zinc Nutrition Consultative Group (IZiNCG) Technical Document', *Food and Nutrition Bulletin*, 25(n. 1 (supplement 2)), pp. S94-S200.
60. Huang, F. and Chen, Y. G. (2012) 'Regulation of TGF- β receptor activity', *Cell and Bioscience*, 2(1), pp. 1-10. doi: 10.1186/2045-3701-2-9.
61. Huicho, L. *et al.* (2017) 'Factors behind the success story of under-five stunting in Peru: A district ecological multilevel analysis', *BMC Pediatrics*. BMC Pediatrics, 17(1), pp. 1-9. doi: 10.1186/s12887-017-0790-3.
62. Hussain, S., Maqsood, M. A. and Rahmatullah (2010) 'Increasing grain zinc and yield of wheat for the developing world: A Review', *Emirates Journal of Food and Agriculture*, 22(5), pp. 326-339. doi: 10.9755/ejfa.v22i5.4821.
63. Ibrahim, M. K. *et al.* (2017) 'Impact of childhood malnutrition on host defense and infection', *Clinical Microbiology Reviews*. American Society for Microbiology, pp. 919-971. doi: 10.1128/CMR.00119-16.
64. Institute of Medicine (U.S.). Panel on Micronutrients. (2001) *DRI : dietary reference intakes for vitamin A, vitamin K, arsenic, boron, chromium, copper, iodine, iron, manganese, molybdenum, nickel, silicon, vanadium, and zinc : a report of the Panel on Micronutrients ... and the Standing Committee on the Scientific*. National Academy Press.
65. Kalappa, B. I. *et al.* (2015) 'AMPA receptor inhibition by synaptically released zinc', *Proceedings of the National Academy of Sciences of the United States of America*, 112(51), pp. 15749-15754. doi: 10.1073/pnas.1512296112.
66. Kambe, T. *et al.* (2015) 'The physiological, biochemical, and molecular roles of zinc transporters in zinc homeostasis and metabolism', *Physiological Reviews*, 95(3), pp. 749-784. doi: 10.1152/physrev.00035.2014.
67. Kelleher, S. L., Seo, Y. A. and Lopez, V. (2009) 'Mammary gland zinc metabolism: Regulation and dysregulation', *Genes and Nutrition*, 4(2), pp. 83-94. doi: 10.1007/s12263-009-0119-4.
68. King, J. C. (2002) 'Enhanced zinc utilization during lactation may reduce maternal and infant zinc depletion', *American Journal of Clinical Nutrition*. doi: 10.1093/ajcn/75.1.2.
69. Klinik, D. *et al.* (2012) 'PERAN DAN DAMPAK DEFISIENSI ZINC (Zn)', pp. 141-148.
70. Kominiarek, M. A. and Rajan, P. (2016) 'Nutrition Recommendations in Pregnancy and Lactation', *Medical Clinics of North America*. Elsevier Inc, 100(6), pp. 1199-1215. doi: 10.1016/j.mcna.2016.06.004.
71. Kondo, N. *et al.* (2011) 'Maternal psychosocial factors determining the concentrations of transforming growth factor-beta in breast milk', *Pediatric Allergy and Immunology*, 22(8), pp. 853-861. doi: 10.1111/j.1399-3038.2011.01194.x.
72. Kuhn, M., Popovic, A. and Pezawas, L. (2014) 'Neuroplasticity and memory

- formation in major depressive disorder: An imaging genetics perspective on serotonin and BDNF', *Restorative Neurology and Neuroscience*, 32(1), pp. 25-49. doi: 10.3233/RNN-139005.
73. Leal, G., Bramham, C. R. and Duarte, C. B. (2017) *BDNF and Hippocampal Synaptic Plasticity*. 1st edn, *Vitamins and Hormones*. 1st edn. Elsevier Inc. doi: 10.1016/bs.vh.2016.10.004.
 74. Lee, M. and Bin, B. (2019) 'Di ff Tindakan lain dari Pengangkut Seng Intraseluler ZIP7 dan ZIP13 Sangat Penting untuk Perkembangan Dermal'.
 75. Lee, M. G. and Bin, B. H. (2019) 'Different actions of intracellular zinc transporters ZIP7 and ZIP13 are essential for dermal development', *International Journal of Molecular Sciences*, 20(16). doi: 10.3390/ijms20163941.
 76. Lee, S. and Kelleher, S. L. (2016) 'Molecular regulation of lactation: The complex and requisite roles for zinc', *Archives of Biochemistry and Biophysics*. Elsevier Ltd, 611, pp. 86-92. doi: 10.1016/j.abb.2016.04.002.
 77. Leroy, J. L. and Frongillo, E. A. (2019) 'Perspective: What Does Stunting Really Mean? A Critical Review of the Evidence', *Advances in Nutrition*. Oxford University Press, 10(2), pp. 196-204. doi: 10.1093/advances/nmy101.
 78. Li, R. *et al.* (2019) 'Gestational 1-nitropyrene exposure causes gender-specific impairments on postnatal growth and neurobehavioral development in mice', *Ecotoxicology and Environmental Safety*. Elsevier Inc., 180(May), pp. 123-129. doi: 10.1016/j.ecoenv.2019.05.016.
 79. Malte Jan B et all (2020) 'BDNF influences neural cue-reactivity to food stimuli and food craving.pdf'.
 80. Maravilla, J. C. *et al.* (2020) 'Stunting of children under two from repeated pregnancy among young mothers', *Scientific Reports*. Nature Publishing Group UK, pp. 1-9. doi: 10.1038/s41598-020-71106-7.
 81. Maret, W. (2017) 'Zinc in cellular regulation: The nature and significance of "zinc signals"', *International Journal of Molecular Sciences*, 18(11). doi: 10.3390/ijms18112285.
 82. Martina Maywald¹, Steffen K. Meurer², R. W. L. R. and 1Institut (2016) '3.9 Zinc supplementation augments TGF- β 1 dependent regulatory T cell induction.pdf'.
 83. Martorell, R. and Young, M. F. (2012) 'Patterns of Stunting and Wasting: Potential Explanatory Factors 1 - 3', pp. 227-233. doi: 10.3945/an.111.001107.227.
 84. Maywald, M., Wessels, I. and Rink, L. (2017) 'Zinc signals and immunity', *International Journal of Molecular Sciences*, 18(10). doi: 10.3390/ijms18102222.
 85. McAllister, B. B. and Dyck, R. H. (2017) 'Zinc transporter 3 (ZnT3) and vesicular zinc in central nervous system function', *Neuroscience and Biobehavioral Reviews*. Elsevier, 80(May), pp. 329-350. doi: 10.1016/j.neubiorev.2017.06.006.
 86. McCormick, N. H. *et al.* (2015) 'Redistribution of tissue zinc pools during lactation and dyshomeostasis during marginal zinc deficiency in mice', *Journal of Trace Elements in Medicine and Biology*. Urban und Fischer Verlag GmbH und Co. KG, 29, pp. 170-175. doi:

- 10.1016/j.jtemb.2014.06.002.
87. Meylia, K. N. *et al.* (2022) 'Fine motor, gross motor, and social independence skills among stunted and non-stunted children', *Early Child Development and Care*. Taylor & Francis, 192(1), pp. 95-102. doi: 10.1080/03004430.2020.1739028.
 88. Mittal, P. (2016) 'Role of zinc in malnutrition', *Int J Gastroenterol Hepatol Transpl Nutr*, 1(iv), pp. 45-48. Available at: www.journal.pghn.com.
 89. Mostert, D. *et al.* (2005) 'Dietary intake of pregnant women and their infants in a poor black South African community.', *Curationis*, 28(4), pp. 12-19. doi: 10.4102/curationis.v28i4.1002.
 90. Mutapi, F. *et al.* (2021) 'Assessing early child development and its association with stunting and schistosome infections in rural zimbabwean children using the griffiths scales of child development', *PLoS Neglected Tropical Diseases*, 15(8), pp. 1-21. doi: 10.1371/journal.pntd.0009660.
 91. Nahar, B. *et al.* (2020) 'Early childhood development and stunting: Findings from the MAL-ED birth cohort study in Bangladesh', *Maternal and Child Nutrition*, 16(1), pp. 0-2. doi: 10.1111/mcn.12864.
 92. Nakashima, A. S. and Dyck, R. H. (2009) 'Zinc and cortical plasticity', *Brain Research Reviews*. Elsevier B.V., 59(2), pp. 347-373. doi: 10.1016/j.brainresrev.2008.10.003.
 93. Nam, S. M. *et al.* (2017) 'Differential Effects of Low- and High-dose Zinc Supplementation on Synaptic Plasticity and Neurogenesis in the Hippocampus of Control and High-fat Diet-fed Mice', *Neurochemical Research*. Springer US, 42(11), pp. 3149-3159. doi: 10.1007/s11064-017-2353-2.
 94. Neggers, Y. H. *et al.* (2003) 'Maternal prepregnancy body mass index and psychomotor development in children', *Acta Obstetrica et Gynecologica Scandinavica*, 82(3), pp. 235-240. doi: 10.1034/j.1600-0412.2003.00090.x.
 95. O'Connor, J. P. *et al.* (2020) 'Zinc as a therapeutic agent in bone regeneration', *Materials*, 13(10), pp. 1-22. doi: 10.3390/ma13102211.
 96. Onis, M. De (2017) 'Nutrition and Health in a Developing World', *Nutrition and Health in a Developing World*. doi: 10.1007/978-3-319-43739-2.
 97. Oyetunji, A. and Chandra, P. (2020) 'Postpartum stress and infant outcome: A review of current literature', *Psychiatry Research*. Elsevier Ireland Ltd, 284(January), p. 112769. doi: 10.1016/j.psychres.2020.112769.
 98. Papatheakis, P. C., Singh, L. N. and Manary, M. J. (2016) 'How maternal malnutrition affects linear growth and development in the offspring', *Molecular and Cellular Endocrinology*, 435(16), pp. 40-47. doi: 10.1016/j.mce.2016.01.024.
 99. Park, K. H. *et al.* (2018) 'Zinc Promotes Osteoblast Differentiation in Human Mesenchymal Stem Cells via Activation of the cAMP-PKA-CREB Signaling', pp. 1-32. doi: 10.1089/scd.2018.0023.
 100. Permadi, M. R. *et al.* (2016) 'Risiko Inisiasi Menyusu Dini dan Praktek ASI Eksklusif terhadap Kejadian Stunting pada Anak 6-24 Bulan', *Penelitian Gizi dan Makanan*, 39(1), pp. 9-14.
 101. Petry, N., Olofin, I., Boy, E., Donahue, M., *et al.* (2016) 'Pengaruh

- Asupan Zat Besi dan Seng Dosis Rendah terhadap Status dan Perkembangan Mikronutrien Anak selama 1000 Hari Pertama Kehidupan: Tinjauan Sistematis dan Analisis Meta', pp. 1-22.
102. Petry, N., Olofin, I., Boy, E., Angel, M. D., *et al.* (2016) 'The effect of low dose Iron and zinc intake on child micronutrient status and development during the first 1000 days of life: A systematic review and meta-analysis', *Nutrients*, 8(12), pp. 1-22. doi: 10.3390/nu8120773.
 103. Pickett, K. E., Abrams, B. and Selvin, S. (2000) 'Maternal height, pregnancy weight gain, and birthweight', *American Journal of Human Biology*, 12(5), pp. 682-687. doi: 10.1002/1520-6300(200009/10)12:5<682::aid-ajhb13>3.0.co;2-x.
 104. Pillay, J. and Davis, T. J. (2018) 'Physiology, Lactation', *StatPearls*.
 105. Prado, E. L. *et al.* (2016) 'Komunikasi Singkat Efek intervensi pada pertumbuhan dan perkembangan bayi: bukti mekanisme berbeda di tempat kerja', pp. 1-6.
 106. Probosiwi, H., Huriyati, E. and Ismail, D. (2017) 'Stunting dan perkembangan anak usia 12-60 bulan di Kalasan', *Berita Kedokteran Masyarakat*, 33(11), p. 559. doi: 10.22146/bkm.26550.
 107. Rahman, S. *et al.* (2016) 'Status of zinc nutrition in Bangladesh: The underlying associations', *Journal of Nutritional Science*, 5, pp. 1-9. doi: 10.1017/jns.2016.17.
 108. Rai, G. *et al.* (2019) 'Peranan Mikronutrien terhadap Perkembangan Otak', 46(3), pp. 180-183.
 109. Ramakrishnan, U. *et al.* (1999) 'Role of Intergenerational Effects on Linear Growth', *The Journal of Nutrition*, 129(2), pp. 544S-549S. doi: 10.1093/jn/129.2.544s.
 110. Rao, R. *et al.* (2009) 'Brain-derived neurotrophic factor in infants <32 weeks gestational age: Correlation with antenatal factors and postnatal outcomes', *Pediatric Research*, 65(5), pp. 548-552. doi: 10.1203/PDR.0b013e31819d9ea5.
 111. Rathi, S. S. *et al.* (no date) 'Zinc Levels in Women and Newborns', pp. 681-682.
 112. Rosmiyati, Anggraini and Susilawati (2017) 'Hubungan Pemberian ASI Eksklusif dengan Perkembangan Motorik Bayi Usia 6 Bulan di BPS Maria Suroso Bandar Lampung Tahun 2017', *Jurnal Dunia Kesmas*, 6(4), pp. 208-214.
 113. Salgueiro, M. J. *et al.* (2002) 'The role of zinc in the growth and development of children', *Nutrition*, 18(6), pp. 510-519. doi: 10.1016/S0899-9007(01)00812-7.
 114. Sangiovanni, E., Brivio, P., Dell'Agli, M., *et al.* (2017) 'Botanicals as Modulators of Neuroplasticity: Focus on BDNF', *Neural Plasticity*, 2017. doi: 10.1155/2017/5965371.
 115. Sangiovanni, E., Brivio, P., Agli, M. D., *et al.* (2017) 'Mengulas artikel Tumbuhan sebagai Modulator Neuroplastisitas: Fokus pada BDNF', 2017.
 116. Sanitasari, R. D., Andreswari, D. and Purwandari, E. P. (2017) 'Sistem Monitoring Tumbuh Kembang Anak Usia 0-5 Tahun Berbasis Android', *journal Rekursif*, 5(1), pp. 1-10.
 117. Sari, D. P. *et al.* (2019) 'PREGNANCY AT BATAM CITY 2019', 7(2),

- pp. 19-27.
118. Sasaki, S. *et al.* (2018) 'Gangguan mouse Slc39a14 gen yang mengkode transporter seng ZIP14 dikaitkan dengan penurunan massa tulang , kemungkinan disebabkan oleh peningkatan resorpsi tulang', 8, pp. 655-663. doi: 10.1002/2211-5463.12399.
 119. Schuster, N. and Krieglstein, K. (2002) 'Mechanisms of TGF- β -mediated apoptosis', *Cell and Tissue Research*, pp. 1-14. doi: 10.1007/s00441-001-0479-6.
 120. Seo, H., Cho, Y., Kim, T., Kwun, H. S. I., *et al.* (2010) 'Seng dapat meningkatkan pembentukan tulang melalui stimulasi proliferasi sel , aktivitas alkali fosfatase , dan sintesis kolagen dalam sel osteoblas MC3T3-E1 .', 4(5), pp. 356-361.
 121. Seo, H., Cho, Y., Kim, T., Shin, H., *et al.* (2010) 'Zinc may increase bone formation through stimulating cell proliferation , alkaline phosphatase activity and collagen synthesis in osteoblastic MC3T3-E1 cells', 4(5), pp. 356-361. doi: 10.4162/nrp.2010.4.5.356.
 122. Septiyeni, W., Lipoeto, N. I. and Serudji, J. (2016) 'Hubungan Asupan Asam Folat , Zink , dan Vitamin A Ibu Hamil Trimester III terhadap Berat Badan Lahir di Kabupaten Padang Pariaman', 5(1), pp. 125-128.
 123. Shennan, D. B. and Peaker, M. (2000) 'Transport of milk constituents by the mammary gland', *Physiological Reviews*. doi: 10.1152/physrev.2000.80.3.925.
 124. Sholikah, A., Rustiana, E. R. and Yuniastuti, A. (2017) 'Faktor - Faktor yang Berhubungan dengan Status Gizi Balita di Pedesaan dan Perkotaan', *Public Health Perspective Journal*, 2(1), pp. 9-18.
 125. Silakarma, D., Agung, A. and Sudewi, R. (2019) 'The role of brain-derived neurotrophic factor (BDNF) in cognitive functions', 8(2), pp. 427-434. doi: 10.15562/bmj.v8i2.1460.
 126. Singh, M. *et al.* (2013) 'Changes in maternal serum transforming growth factor beta-1 during pregnancy: A cross-sectional study', *BioMed Research International*, 2013. doi: 10.1155/2013/318464.
 127. Soetjiningsih (2014) *Tumbuh Kembang Anak*. Edisi 2. Edited by J. Y. Suyono. Jakarta: EGC.
 128. Sporn, M. B. *et al.* (1986) 'Transforming growth factor- β : Biological function and chemical structure', *Science*, 233(4763), pp. 532-534. doi: 10.1126/science.3487831.
 129. Sriraman, N. K. (2017) 'The Nuts and Bolts of Breastfeeding: Anatomy and Physiology of Lactation', *Current Problems in Pediatric and Adolescent Health Care*. doi: 10.1016/j.cppeds.2017.10.001.
 130. Stewart, D. *et al.* (2016) 'Umbilical cord care in the newborn infant', *Pediatrics*, 138(3). doi: 10.1542/peds.2016-2149.
 131. Sudfeld, C. R. *et al.* (2015) 'Linear growth and child development in low- and middle-income countries: A meta-analysis', *Pediatrics*, 135(5), pp. e1266-e1275. doi: 10.1542/peds.2014-3111.
 132. Sullivan, B. J. and Kadam, S. D. (2021) 'Brain-Derived Neurotrophic Factor in Neonatal Seizures', *Pediatric Neurology*. Elsevier Ltd, 118, pp. 35-39. doi: 10.1016/j.pediatrneurol.2021.01.011.
 133. Surkan, P. J. *et al.* (2013) 'Effects of zinc and iron supplementation

- fail to improve motor and language milestone scores of infants and toddlers', *Nutrition*. Elsevier Inc., 29(3), pp. 542-548. doi: 10.1016/j.nut.2012.09.003.
134. Syukaisih (2017) 'PERILAKU PERNIKAHAN DINI PADA REMAJA DI KECAMATAN MARPOYAN DAMAI KOTA PEKANBARU', VIII, pp. 156-160.
 135. Tamura, T. *et al.* (2000) 'Maternal plasma zinc concentrations and pregnancy outcome', *American Journal of Clinical Nutrition*, 71(1), pp. 109-113. doi: 10.1093/ajcn/71.1.109.
 136. Tamura, T. *et al.* (2003) 'Effect of zinc supplementation of pregnant women on the mental and psychomotor development of their children at 5 y of age', *American Journal of Clinical Nutrition*, 77(6), pp. 1512-1516. doi: 10.1093/ajcn/77.6.1512.
 137. Taneja, S. *et al.* (2009) 'Effect of zinc supplementation on morbidity and growth in'. doi: 10.3945/ajcn.2009.27707.Am.
 138. Travaglia, A. and La Mendola, D. (2017) *Zinc Interactions With Brain-Derived Neurotrophic Factor and Related Peptide Fragments*. 1st edn, *Vitamins and Hormones*. 1st edn. Elsevier Inc. doi: 10.1016/bs.vh.2016.10.005.
 139. Umeta, M. *et al.* (2003) 'Factors associated with stunting in infants aged 5-11 months in the Dodota-Sire District, Rural Ethiopia', *Journal of Nutrition*, 133(4), pp. 1064-1069. doi: 10.1093/jn/133.4.1064.
 140. UNS/SCN (2013) 'Summary chapter 3 Maternal nutrition and the intergenerational cycle of growth failure', pp. 62-75.
 141. Usia, T. *et al.* (2018) 'Pengaruh Zinc Suplementasi pada Pertumbuhan Hasil pada Anak di bawah 5 Tahun Usia', (4), pp. 1-20.
 142. Usman, H., Sukandar, H. and Sutisna, M. (2014) 'Pertumbuhan dan Perkembangan Anak Usia 3-24 Bulan di Daerah Konflik', *Kesmas: National Public Health Journal*, 9(1), p. 44. doi: 10.21109/kesmas.v9i1.455.
 143. Uwiringiyimana, V. *et al.* (2019) 'Predictors of stunting with particular focus on complementary feeding practices: A cross-sectional study in the northern province of Rwanda', *Nutrition*, pp. 11-18. doi: 10.1016/j.nut.2018.07.016.
 144. Uwizeye, D. *et al.* (2020) 'Heliyon Prevalence of teenage pregnancy and the associated contextual correlates in Rwanda', *Heliyon*. Elsevier Ltd, 6(April 2019), p. e05037. doi: 10.1016/j.heliyon.2020.e05037.
 145. Vela, G. *et al.* (2015) 'Mengulas artikel Seng dalam Interaksi Usus-Otak dalam Autisme dan Gangguan Neurologis', 2015.
 146. Villar, J. *et al.* (2018) 'The satisfactory growth and development at 2 years of age of the INTERGROWTH-21 st Fetal Growth Standards cohort support its appropriateness for constructing international standards', *American Journal of Obstetrics and Gynecology*, 218(2), pp. S841-S854.e2. doi: 10.1016/j.ajog.2017.11.564.
 147. Vonaesch, P. *et al.* (2018) 'Identifying the etiology and pathophysiology underlying stunting and environmental enteropathy: Study protocol of the AFRIBIOTA project', *BMC Pediatrics*. BMC Pediatrics, 18(1), pp. 1-18. doi: 10.1186/s12887-018-1189-5.
 148. Widhyari, S. D. (2012) 'PERAN DAN DAMPAK DEFISIENSI ZINC (

- Zn)', pp. 141-148.
149. Wilson, R. L. *et al.* (2016) 'Association between maternal zinc status, dietary zinc intake and pregnancy complications: A systematic review', *Nutrients*, 8(10), pp. 1-28. doi: 10.3390/nu8100641.
 150. Windiarso and Yanto (2018) *74D38-Buku-Pai-2018, Ilmu Pendidikan*.
 151. Wisana, N. L. (2012) 'RENDAHNYA KADAR IL-4 SEBAGAI FAKTOR RENDAHNYA KADAR IL-4 SEBAGAI FAKTOR'.
 152. Yasuda, H. and Tsutsui, T. (2016) 'Infants and elderlies are susceptible to zinc deficiency', *Scientific Reports*. Nature Publishing Group, 6(January), pp. 1-7. doi: 10.1038/srep21850.
 153. Yeom, C. W. *et al.* (2016) 'Association of peripheral BDNF level with cognition, attention and behavior in preschool children', *Child and Adolescent Psychiatry and Mental Health*. BioMed Central, 10(1), pp. 1-10. doi: 10.1186/s13034-016-0097-4.
 154. Yousafzai, A. K. *et al.* (2014) 'Effect of integrated responsive stimulation and nutrition interventions in the Lady Health Worker programme in Pakistan on child development, growth, and health outcomes: A cluster-randomised factorial effectiveness trial', *The Lancet*, 384(9950), pp. 1282-1293. doi: 10.1016/S0140-6736(14)60455-4.
 155. Yudianti, Y. and Saeni, R. H. (2017) 'Pola Asuh Dengan Kejadian Stunting Pada Balita Di Kabupaten Polewali Mandar', *Jurnal Kesehatan Manarang*, 2(1), p. 21. doi: 10.33490/jkm.v2i1.9.
 156. Zahiri Sorouri, Z., Sadeghi, H. and Pourmarzi, D. (2016) 'The effect of zinc supplementation on pregnancy outcome: A randomized controlled trial', *Journal of Maternal-Fetal and Neonatal Medicine*, 29(13), pp. 2194-2198. doi: 10.3109/14767058.2015.1079615.
 157. Zhang, J. *et al.* (2017) 'Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis', *Acta Biomaterialia*, 57, pp. 487-497. doi: 10.1016/j.actbio.2017.04.004.
 158. Zhang, M. F. *et al.* (2001) 'Identification of soluble transforming growth factor- β receptor III (sT β III) in rat milk', *Immunology and Cell Biology*, pp. 291-297. doi: 10.1046/j.1440-1711.2001.01013.x.
 159. Zulaekhah S, Purwanto S, H. L. (2014) 'Anemia Terhadap Pertumbuhan Dan Perkembangan Anak Malnutrisi', *KESMAS - Jurnal Kesehatan Masyarakat*, 9(2), pp. 106-114. doi: 10.15294/kemas.v9i2.2837.